

BRUHAT BANGALORE MAHANAGARA PALIKE**Yelahanka Zone, Electrical Division**

Name of Work:-Detailed Estimate for Maintenance and installation of New panel boards to the tubular/Highmasts Lights to the Yelahanka Zone.

Ward No. 04**Estimate No:-****For Rs.****300000.00**

SI No	SR Page & SL No	Description Of Work	Unit	Qty	Rate	Amount
1	1.1.1	Digging of Pits 1.8 mtr depth for erection of 9 to 10mtr Long Steel/RCC/PSC supports as per approved Drawing. Ordinary Soil	Nos	5	378.00	1890.00
2	2.1	Erection of steel supports 9.0 to 10.00 mtr long suchas 22.68 kg (50 lbs) Rail, 27.22 kg (60 Lbs) Rail IBeam of sizes 200x100mm, 175x90 mm, 125x100mm. Fabricates poles tubular poles in pits of 1.8 mtrDepth, Aligning, Refilling with soil and ramming asapproved drawing	Nos	5	304.00	1520.00
3	1.8.2	Pole concreting with CC 1:2:4 (without coping) f) 8mtrs support (400x400x1500mm)	Nos	5	982.00	4910.00
4	17.1	Any Dismantling work 90% of the corresponding erection charges(304x90%=273.6)	Nos	5	273.60	1368.00
5	27.1	Transportation using 7.5/10 Tons Lorry Rs. 23 per Kms subjected to a minimum of Rs. 1200/-per day (shifting of Panel boards & Poles)	Nos	3	1200.00	3600.00
6	16.28.3	Painting of existing street light pole after scrapping the old paint and painted with suitable colour enamel/Silver paint including coping/footing of the pole .8Mtr and above street light pole.	Nos	7	700.00	4900.00
7	6/2.6.7	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multis and Copper conductor single core cable in open or consealed system of wiring.I Group A Materials.g)16 sqmm	Mtrs	40	132.00	5280.00
8	17/3.10	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. And M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. a)40X40X6mm	Mtrs	25	263.00	6575.00
9	49/6.40.2	Fabricating supplying and mounting MS box made out... SWG suitable for floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size cdlamps with mecessary cable entry pipe with gland and box should be finished with 2 cdoats of red oxide primer paint and finally finished with approved colour enameled metal pain etc., complete. b)16 swg	Sqcm	120000	0.33	39600.00
10	46/6.13.A.1	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) THREE POLE 100Amps 25kA.	Nos	6	4044.00	24264.00

11	AR	Thiristor based single/ Three phase smart street light control and monitoring system Remotely control and and monitorable smart street light system by using web or mobile application .smart control system has hardware ruggedness over field issues like line cross, line short, lighting and any other irregularities in voltage. It has some features like 1.Remote lighting management.2.Precise lighting turnoff.3.Load ballancing.4.Load power regulation.5.Status tracking. It works on the basis of some of these features 1) Main Control Unit (Mother board) : Handles controlling , data handling and other communication process. 2) Communication unit: GSM/GPRS quad bandwidth RS232 interface wireless communication unit 3) Gate Driver Unit: Firing angle controllable board for driving the thyristor 4) Switching Thyristor: SCR 110 AMPS dual thyristor modules for switching 5) Embedded Firmware: Firmware to control , handle , process the data and communicate it wirelessly.6) Metal Enclosure : IP66 weather prof metal enclosure.7) Transformers: Customized step down transformers for various purposes.8) Wiring and other device assembly components.	Nos	4	51500.00	206000.00
		Mislenious				93.00
		Total Rs				300000.00

CERTIFICATE :-

1. The place was inspected and the work is essential.
2. The provision made in the estimate are adequate and necessary and the work comes in the BBMP limit and is legitimate Charges on the BBMP funds.
3. The estimate is based on KPWD (Ele) S.R.2014-15 , BESCOM SR and Approved Rates.

[Signature]
Asst. Engineer (Elec)

[Signature]
Asst. Exe.Engineer (Elec)
Sub-Division No.
Bruhat Bangalore Mahanagara Palike

[Signature]
EXECUTIVE ENGINEER (ELEC)
YELAHANKA DIVISION
BRUHAT BANGALORE MAHANAGARA PALIKE

Administrative Sanction for Rs. **3.00 LAKHS**
RUPEES THREE LAKHS ONLY

is accorded under the **PISIF UPGRADING STREET LIGHTING OF BANGALORE MAJOR ROADS**

Registered as EE No. **11/2018-19** Subject to conditions contained in enclosed memo No. **BBMP/EE/EIE/42/AS/11/2018-19** Dt **25.09.2018**

[Signature]
Executive Engineer

TECHNICALLY SANCTIONED FOR Rs. **3.00 LAKHS**
Rupees **THREE LAKHS ONLY**

Under **PISIF UPGRADING STREET LIGHTING OF BANGALORE**

Registered as EE () No. **11/2018-19** Subject to conditions contained in enclosed memo EE () No. **BBMP/EE/EIE/42/AS/11** Dt **25.09.2018** Estimate A/ Sanctioned **BBMP/EE/EIE/42/TS/11/2018-19** Dated **25.09.2018** Rs. **3.00 LAKHS**

[Signature]
Executive Engineer